



SAFETY DATA SHEET

Denatured Ethanol, Special Ink Solvent Formula 663, 200 Proof
This SDS is valid for all grades and catalog #s

1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

Product Identifier: Ethanol
Synonyms: Duplicating Fluid, Denatured Ethyl Alcohol Blend; Ink Solvent
Other means of identification: CAS No. 64-17-5
EINECS No. 200-578-6

Recommended use of the chemical and restrictions on use:

Supplier Details:

Greenfield Global USA, Inc.
58 Vale Road, Brookfield,
CT 06804, USA.
Tel: 203.740.3471
Fax: 203.740.3481
CCN17213

Greenfield Global USA, Inc.
1101 Isaac Shelby Drive, Shelbyville,
KY 40065, USA.
Tel: 502.232.7600
Fax: 502.633.6100
CCN17213

Emergency Contact: CHEMTREC: 1.800.424.9300 (USA) / +1.703.527.3887 (International)

2. HAZARDS IDENTIFICATION

Emergency Overview:

OSHA Hazards:

Flammable liquid, Target Organ Effect, Irritant

Target Organs:

Heart, Liver, Nerves



Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA)
NFPA **+1.703.527.3887 (INT)**



GHS label elements, including precautionary statements



Signal Word:

DANGER!

Hazard statement(s)

H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.

Precautionary statement(s)

P501 Dispose of contents and container to an approved waste disposal plant.
P240 Ground/bond container and receiving equipment.
P337 + P313 If eye irritation persists: Get medical attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.
P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P233 Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P243 Take precautionary measures against static discharge.
P241 Use explosion-proof electrical, ventilating, and lighting equipment.

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| | | |
|------|---|------------------------------|
| P242 | Use only non-sparking tools. | +1.703.527.3887 (INT) |
| P264 | Wash hands thoroughly after handling. | |
| P280 | Wear protective gloves and eye and face protection. | |

GHS Classification(s)

Eye irritation (Category 2B)
 Flammable Liquids (Category 2)
 Skin irritation (Category 2)
 Specific target organ toxicity - single exposure (Category 3)

Other hazards which do not result in classification:

Potential Health Effects:

| Organ | Description |
|------------|--|
| Eyes | May cause irritation including stinging, tearing, and redness. |
| Ingestion | Ingestion may cause dizziness, faintness, drowsiness decreased awareness or responsiveness, nausea, vomiting, staggering gait, lack of coordination, coma and death. |
| Inhalation | High vapor concentration may cause burning sensation in nose and throat and stinging and watering in the eyes. At concentrations which cause irritation, dizziness, faintness, drowsiness, nausea and vomiting may also occur. |
| Skin | Prolonged or widespread contact may result in the absorption of potentially harmful amounts. Inhalation: High vapor concentration may cause burning sensation in nose and throat and stinging and watering in the eyes. At concentrations which cause irritation, dizziness, faintness, drowsiness, nausea and vomiting may also occur. Skin Contact: Prolonged or repeated contact may cause defatting and drying of the skin. |
| Chronic | Long term repeated oral exposure to ethanol may result in the development of progressive liver injury with fibrosis. Overexposure to methanol may cause eye damage and liver or kidney injury. Other Health Hazards: Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus, producing a collection of effects which together constitute fetal alcohol syndrome. Medical Conditions Aggravated by Overexposure: Repeated exposure to ethanol may aggravate liver injury produced from other causes. Skin contact may aggravate dermatitis. |

3. COMPOSITION AND INFORMATION ON INGREDIENTS

| | |
|-------------------------------|--------------------------------|
| Chemical identity: | Alcohol |
| Common name / Synonym: | Duplicating Fluid, Ink Solvent |
| CAS number: | 64-17-5 |
| EINECS number: | 200-578-6 |
| ICSC number: | 0044 |
| RTECS #: | KQ6300000 |
| UN #: | UN1987 |
| EC #: | 603-002-00-5 |

| % Volume | Material | CAS |
|----------|----------|---------|
| 80.95 | Ethanol | 64-17-5 |



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| | | |
|-------|-------------------|----------------------------------|
| 18.05 | Isopropyl Alcohol | +1.703.527.3887 (INT) |
| 1.00 | Propyl Acetate | 109-60-4 |

4. FIRST AID MEASURES

General advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Skin

Wash skin with soap and copious amounts of water. Seek medical attention.

Inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

Eyes

Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.

Ingestion

DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

Note to Physician

Symptoms vary with alcohol level of the blood. Mild alcohol intoxication occurs at blood levels between 0.05- 0.15 %. Approximately 25% of individuals show signs of intoxication at these levels. Above 0.15% the person is definitely under the influence of ethanol; 50-95% of individuals are clinically intoxicated at these levels. Severe poisoning occurs when the blood is ethanol level is 0.3- 0.5%. Above 0.5% the individual will be comatose and death can occur. The unabsorbed ethanol should be removed by gastric lavage after intubating the patient to prevent aspiration. Avoid the use of depressant drugs or the excessive administration of fluids.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Carbon oxides expected to be the primary hazardous combustion product.

Special protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.



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Unusual Fire and Explosion Hazards:

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- May produce a floating fire hazard.
- Static ignition hazard can result from handling and use.
- Vapors may travel to source of ignition and flash back.
- Vapors may settle in low or confined spaces.

Alcohols burn with a pale blue flame which may be extremely hard to see under normal lighting conditions. Personnel may only be able to feel the heat of the fire without seeing flames. Extreme caution must be exercised in fighting alcohol fires. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire.

Flammable Properties

Classification

OSHA/NFPA Class IB Flammable Liquid.

Flash point

14°C (58°F) - closed cup

Autoignition temperature

363°C (685.4°F) - (Ethyl Alcohol)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions:

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up:

Absorb with an inert dry material and place in an appropriate waste disposal container. Keep disposal containers closed when finished.

7. HANDLING AND STORAGE

Precautions for safe handling:

Do not get on skin or in eyes. Do not inhale vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. Open and handle container with care. Metal containers involved in the transfer of this material should be grounded and bonded.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a cool, dry and well-ventilated place. Containers which are opened must be

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carefully resealed and kept upright to prevent leaks/spills. Consult local fire codes for additional information. **1.703.527.3597 (INT)**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters, e.g., occupational exposure limit values or biological limit values:

Occupational Exposure Limits

| Component | Source | Type | Value | Note |
|----------------|------------|------|------------------------------------|---|
| Ethyl alcohol | US (OSHA) | TWA | 1000 ppm / 1,900 mg/m ³ | 29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants. |
| Isopropanol | US (OSHA) | TWA | 400 ppm / 980 mg/m ³ | 29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants. |
| Isopropanol | US (ACGIH) | TWA | 200 ppm | ACGIH Treshold Limit Value |
| Propyl Acetate | US (OSHA) | TWA | 200 ppm , 840mg/m ³ | 29 CFR 1910.1000 Table Z1 Limits for Air Contaminants |
| Propyl Acetate | US (ACGIH) | TWA | 200 ppm | ACGIH Threshold limit value |

Appropriate engineering controls:

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

Individual protection measures, such as personal protective equipment:

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance (<i>physical state, color, etc.</i>) | Liquid. Colorless. |
| Freezing point | -114Å°C (-173Å°F) |
| Initial boiling point and boiling range | 80Å°C (176Å°F) |
| Flash point | 14Å°C (58Å°F) - closed cup |
| Evaporation rate | Specific data not available - expected to be rapid. |
| Flammability (solid, gas) | Flammable |
| Upper / Lower flammability or explosive limits | 3.3%(V) / 19%(V) |
| Vapor pressure | 44.6mmHg (5.94 kPa) |
| Vapor Density | 1.6 (air =1) |
| Solubility(ies) | completely soluble |
| Auto-ignition temperature | 363Å°C (685.4Å°F) - (Ethyl Alcohol) |
| Formula (ETHANOL) | C2H6O |
| Formula (ISOPROPYL ALCOHOL) | C3H8O |
| Formula (PROPYL ACETATE) | C5H10O2 |
| Molecular Weight (ETHANOL) | 46.07 g/mol |
| Molecular Weight (ISOPROPYL ALCOHOL) | 60.1 g/mol |
| Molecular Weight (PROPYL ACETATE) | 102.13 g/mol |

10. STABILITY AND REACTIVITY

| | |
|--|--|
| Possibility of hazardous reactions | Vapors may form explosive mixture with air. |
| Conditions to avoid (e.g., static discharge, shock or vibration) | Heat, flames, and sparks. Extreme temperatures and direct sunlight. |
| Incompatible materials | Strong acids, strong oxidizing agents |
| Hazardous decomposition products | Hazardous decomposition products formed under fire conditions. - Carbon oxides |

11. TOXICOLOGICAL INFORMATION

- Ethyl Alcohol 64-17-5

Signs and Symptoms of Exposure

Central nervous system depression, narcosis, damage to the heart. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Product Summary:

Ethanol is not toxic by OSHA standards. Coingestion of sedative hypnotics or tranquilizers can increase the toxic affects of ethanol.

Acute Toxicity:



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| | | | |
|-------------|-------|----------------|------------------------------|
| LC50 (inhl) | Rat | 20000ppm | +1.703.527.3887 (INT) |
| LC50 (Oral) | Rat | 7060mg/Kg BWT | |
| LDLo (Oral) | Human | 1400 mg/Kg BWT | |

Irritation:

Eyes (ETHANOL)

Eye exposure to Ethanol generally causes transient pain, irritation, and reflex lid closure. A foreign-body sensation may persist for one to two days. Vapors produce transient stinging and tearing, but no apparent adverse effects. Transiently impaired preception of color may occur with acute ingestion or chronic alcoholism. Standard Draize eye test (rabbit) - Dose: 500 mg Reaction: Severe Dose: 500 mg/24 hrs Reaction: Mild

Skin

Standard Draize skin test (rabbit) - Dose: 20 mg/24 hrs Reaction: Moderate Repeated exposure may cause skin dryness or cracking.

Carcinogenicity

IARC: Not classifiable as a human carcinogen.
ACGIH: Not classifiable as a human carcinogen.
NTP: Not classifiable as a human carcinogen.
OSHA: Not classifiable as a human carcinogen.

Other Hazards

| Organ | Description |
|------------|--|
| Eyes | Irritating to the eyes. May cause painful sensitization to light. May cause chemical conjunctivitis and corneal damage. |
| Ingestion | May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis. Advanced stages can lead to respiratory failure, kidney failure, coma, and death. |
| Inhalation | Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation. May cause narcotic effects in high concentration. Vapors may cause dizziness or suffocation. |
| Skin | Mildly irritating to the skin. May cause dermatitis by de-fatting the skin from prolonged or repeated contact. |
| Chronic | Prolonged exposure can cause liver, kidney, and heart damage. Long term exposure can cause loss of appetite, weight loss, nervousness, memory loss, mental retardation. |

- Isopropyl Alcohol 67-63-0

Product Summary:

Long-term exposure (2 years) to Isopropyl Alcohol via inhalation at concentrations up to 5000 ppm caused no exposure related increases in tumors in animals. No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.



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Acute Toxicity:

| | | | |
|--------------|--------|--------------|---------|
| LC50 (vapor) | Rat | 19,000 ppm | 8 hours |
| LD50 (oral) | Rat | 4,396 mg/kg | |
| LD50 (skin) | Rabbit | 12,870 mg/kg | |

Irritation:

Eyes

Rabbit - Irritating to eyes - 24 hours

Eyes (ISOPROPANOL)

Mildly irritating to the eye at an airborne concentration of 400 ppm, unpleasant at 800 ppm.

Skin

Moderate skin irritant

Carcinogenicity

IARC: Group 3: Not classifiable as to its carcinogenicity to humans.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other Hazards

| Organ | Description |
|------------|--|
| Eyes | Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury. May cause transient corneal injury |
| Ingestion | Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause kidney damage. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure. |
| Inhalation | Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause narcotic effects in high concentration. Causes upper respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness. Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal. The probable oral lethal dose in humans is 240 ml (2696 mg/kg), but ingestion of only 20 ml (224 mg/kg) has caused poisoning. |
| Skin | May cause irritation with pain and stinging, especially if the skin is abraded. Isopropanol has a low potential to cause allergic skin reactions; however, rare cases of allergic contact dermatitis have been reported. May be absorbed through intact skin. Dermal absorption has been considered toxicologically insignificant. |



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| | | |
|---------|--|----------------------|
| Chronic | Prolonged exposure can be irritating to mucous membranes, skin, and the respiratory system. Cause liver and kidney damage. | 1.703.527.3887 (INT) |
|---------|--|----------------------|

- Propyl Acetate 109-60-4

Product Summary:

No data available for reproductive toxicity, mutagenic or teratogenic affects.

Acute Toxicity:

| | | | |
|---------------|--------|--------------|--|
| LD50 (Dermal) | Rabbit | >17740 mg/kg | |
| LD50 (Oral) | Rat | 9370mg/kg | |

Irritation:

No data available

/

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Other Hazards

| Organ | Description |
|------------|--|
| Eyes | Causes eye irritation. |
| Ingestion | Harmful if swallowed. |
| Inhalation | May be harmful if inhaled. Causes respiratory tract irritation. Vapors can cause drowsiness and dizziness. |
| Skin | Causes skin irritation if absorbed in skin. |

12. ECOLOGICAL INFORMATION

- Ethyl Alcohol 64-17-5

Ecotoxicity (aquatic and terrestrial, where available):

Acute Fish toxicity (ETHANOL)

LC50 / 96 HOUR Oncorhynchus mykiss (rainbow trout) > 10,000 mg/l

LC50 / 96 HOUR Pimephales promelas (fathead minnow) > 13,400 mg/l

Toxicity to aquatic plants (ETHANOL)



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Growth inhibition / 96 HOURS *Chlorella vulgaris* (Fresh water algae) 1,000 mg/l

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Toxicity to microorganisms (ETHANOL)

Toxicity Threshold / *Pseudomonas putida* 6,500 mg/l

Summary: Inhibition of cell multiplication begins.

Persistence and degradability:

Biodegradation is expected.

Bioaccumulative potential:

Biaccumulation is unlikely

• Isopropyl Alcohol 67-63-0

Ecotoxicity (aquatic and terrestrial, where available):

Acute Fish Toxicity (ISOPROPANOL)

LC50 / 96 hours *Pimephales promelas*: 9,640 mg/L

Toxic to Daphnia and Other Aquatic Invertebrates

EC50 / 24 h / Water Flea - 5,102 mg/L

Toxicity to Aquatic Plants (ISOPROPANOI)

EC50 / 72 hours *Scenedesmus subspicatus* > 1,000 mg/L

Persistence and degradability:

No data available

Bioaccumulative potential:

No data available

• Propyl Acetate 109-60-4

Ecotoxicity (aquatic and terrestrial, where available):

Toxicity to daphnia (PROPYL ACETATE)

EC50 / 24h / Water flea - 318mg/l

Persistence and degradability:

No data available



Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA)
Bioaccumulative potential: +1.703.527.3887 (INT)
 No data available

13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

Vapors may collect in empty containers. Treat empty containers as hazardous. Dispose of spill-clean up and other wastes in accordance with Federal, State, and local regulations.

14. TRANSPORT INFORMATION

Description of waste residues and information on their safe handling and methods of disposal:

| | |
|--------------------------------------|------------------|
| UN number | UN1987 |
| UN proper shipping name | Alcohols, n.o.s. |
| Transport hazard class(es) | 3 |
| Packing group (if applicable) | II |

IMDG

UN-Number: UN1987 Class: 3 Packing Group: II
 EMS-No: F-E, S-D
 Proper shipping name: ALCOHOLS, N.O.S.
 Marine pollutant: No

IATA

UN-Number: UN1987 Class: 3 Packing Group: II
 Proper shipping name: Alcohols, n.o.s.

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question:

OSHA Hazards

Flammable liquid, Target Organ Effect, Irritant

All ingredients are on the following inventories or are exempted from listing

| Country | Notification |
|----------------|---------------------|
| Australia | AICS |
| Canada | DSL |
| China | IECS |
| European Union | EINECS |
| Japan | ENCS/ISHL |
| Korea | ECL |



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| | | |
|--------------------------|-------|------------------------------|
| New Zealand | NZIoC | +1.703.527.3887 (INT) |
| Philippines | PICCS | |
| United States of America | TSCA | |

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313: 2-Propanol
CAS-No. 67-63-0 Revision Date 1987-01-01

SARA 311/312 Hazards

- Acute Health Hazard
- Chronic Health Hazard
- Fire Hazard

CERCLA

No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA

Massachusetts Right To Know Components

Ethanol CAS-No.64-17-5 Revision Date 2007-03-01

Isopropyl Alcohol CAS-No. 67-63-0 Revision Date 1987-01-01

Pennsylvania Right To Know Components

Ethanol CAS-No.64-17-5 Revision Date 2007-03-01

Isopropyl Alcohol CAS-No. 67-63-0 Revision Date 1987-01-01

New Jersey Right To Know Components

Ethanol CAS-No.64-17-5 Revision Date 2007-03-01

Isopropyl Alcohol CAS-No. 67-63-0 Revision Date 1987-01-01

California Prop 65 Components

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (ETHYL ALCOHOL) CAS No. 64-17-5 Revision Date: December 11, 2009



PHARMCO
by Greenfield Global

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16. OTHER INFORMATION:

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INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

Disclaimer

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